THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

(Currently amended) A cylinder block for an internal combustion engine,
comprising:

at least one cylinder bore;

a coolant jacket at least partially surrounding the at least one cylinder bore; and a deck for attachment of a cylinder head;

wherein the deck is an open top deck and wherein the coolant jacket includes an upper portion and a lower portion having first and second widths, respectively, and an intermediate portion between the upper and lower portions, the intermediate portion having a third width which is greater than the first and second widths, and wherein the at least one cylinder bore is a linerless cylinder bore.

- 2. (Original) The cylinder block of Claim 1 wherein the upper portion is adjacent the top deck.
- 3. (Original) The cylinder block of Claim 1 wherein the lower portion is adjacent the base of the coolant jacket.
- 4. (Original) The cylinder block of Claim 2 wherein the lower portion is adjacent the base of the coolant jacket.

- 5. (Canceled).
- 6. (Currently amended) The cylinder block of Claim 5 Claim 1, comprising at least two cylinder bores, the bores having conjoined cylinder walls.
- 7. (Original) The cylinder block of Claim 1, wherein the first and second widths are substantially the same.
- 8. (Original) The cylinder block of Claim 1, wherein the coolant jacket has a first taper between the upper portion and the intermediate portion, and a second taper between the intermediate portion and the lower portion, the first and second tapers being in the range of about 1° to about 10° from vertical.
- 9. (Currently amended) The cylinder block of Claim 1, A cylinder block for an internal combustion engine, comprising:

at least one cylinder bore;

a coolant jacket at least partially surrounding the at least one cylinder bore; and a deck for attachment of a cylinder head;

wherein the deck is an open top deck and wherein the coolant jacket includes an upper portion and a lower portion having first and second widths, respectively, and an intermediate portion between the upper and lower portions, the intermediate portion having a third width which is greater than the first and second widths, wherein the block has a parting line, the intermediate portion of the coolant jacket and parting line being co-planar.

10. (Original) A cylinder block for an internal combustion engine, the cylinder block comprising:

at least one cylinder bore;

a coolant jacket at least partially surrounding the at least one cylinder bore and having a top and a base; and

a parting line;

wherein the coolant jacket extends through the parting line and wherein the coolant jacket has a width which tapers in a direction of increasing width from the top of the coolant jacket to the parting line and tapers in a direction of decreasing width from the parting line to the base of the coolant jacket.

- 11. (Original) The cylinder block of Claim 10, wherein the coolant jacket width tapers in each direction in the range of about 1° to about 10° from vertical.
- 12. (Original) A method for manufacturing a cylinder block for an internal combustion engine, comprising:

providing a coolant jacket casting core having an upper portion and a lower portion having first and second widths, respectively, and an intermediate portion between the upper and lower portions, the intermediate portion having a third width which is greater than the first and second widths;

casting a cylinder block around the coolant jacket casting core; and removing the cooling jacket casting core to leave a coolant jacket formed in the cylinder block.

- 13. (Original) The method of Claim 12, wherein coolant jacket casting core has a first taper between the upper portion and the intermediate portion, and a second taper between the intermediate portion and the lower portion, the first and second tapers being in the range of about 1° to about 10° from vertical.
- 14. (Original) The method of claim 12, wherein said step of providing a coolant jacket casting core includes:

providing a core box including upper and lower detachable parts defining a core volume having an upper portion and a lower portion having first and second widths, respectively, and an intermediate portion between the upper and lower portions, the intermediate portion having a third width which is greater than the first and second widths, said core box parts being joinable at a split line co-planar with the intermediate portion of the core volume; and

disposing a quantity of core material in the core volume.

15. (Original) The method of claim 12, wherein said step of providing a coolant jacket casting core comprises:

providing a core box having a top and a bottom and including upper and lower detachable parts defining a core volume, said core box parts being joinable at a split line located substantially midway between the top and the bottom of the core box; and disposing a quantity of core material in the core volume.

16. (New) A cylinder block for an internal combustion engine, comprising: at least one cylinder bore;

a coolant jacket at least partially surrounding the at least one cylinder bore; and

a deck for attachment of a cylinder head;

wherein the deck is an open top deck and wherein the coolant jacket includes an upper portion and a lower portion having first and second widths, respectively, and an intermediate portion between the upper and lower portions, the intermediate portion having a third width which is greater than the first and second widths, and wherein the first, second, and third widths are defined by surfaces formed integral with the cylinder block.

- 17. (New) The cylinder block of Claim 16, wherein the coolant jacket is formed wholly by surfaces integral with the cylinder block.
- 18. (New) The cylinder block of Claim 16, wherein the lower portion is adjacent the base of the coolant jacket.
- 19. (New) The cylinder block of Claim 16, wherein the at least one cylinder bore is a linerless cylinder bore.
- 20. (New) The cylinder block of Claim 16, wherein the first and second widths are substantially the same.
- 21. (New) The cylinder block of Claim 16, wherein the coolant jacket has a first taper between the upper portion and the intermediate portion, and a second taper between the intermediate portion and the lower portion, the first and second tapers being in the range of about 1° to about 10° from vertical.